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This proposed pro	gram outlines	the necessary	redesign, fabr	ication.	OT A T
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I. Replenishing System

The replenishing system will consist of 4 flow meters sufficient in size to process the above mentioned film types. Each processing module will be modified by the addition of overflow stand pipes.

II. Temperature Control and Indicating System

The temperature indicating system will be tested for accuracy and reliability. If the present system proves unusable, it will be replaced with a thermister-operated system.

Our intention will be to elevate the processing temperature well above ambient, creating enough temperature difference as to eleminate the need for a refrigeration system in the processor.

III. Positive Pressure

The bubbling problem causing the processing solutions to overflow onto the pumps may be eliminated by increasing the amount of anti-foam agent used in these solutions. If this simple test proves negative, it will become necessary to increase the exhaust duct size, to reduce the positive pressure build-up under each module cover.

Declass Review by NIMA/DOD

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IV. Film Transport Indicating System

The film transport indicating system will consist of an independent techometer and an FPM indicating meter mounted adjacent to the speed control knob on the front panel.

V. <u>Drain Problem</u>

The drain outlet size will be increased to accommodate draining all modules at one time.

VI. Dryer

There are two possible design approaches to the drying problem which shall be shall be studied.

A - The simplest modification appears to be the addition of a second infra red source which will be installed so that the radiation is applied to the amulsion as well as the base side of the film.

B - In the event the infra dryer proves unsatisfactory a con-

VII. Acceptance Test Criteria

A - Reference Film Samples
Film samples will be sensitometrically exposed and processed
under controlled conditions in accordance with the film manufacturer's recommendations. The resultant D log E curves for
each film type will be eased as a basis to evaluate the performance of the processor.

B - Processing Parameters Sufficient film will be exposed under the same conditions as the reference film samples and processed to the proper Time - Temperature and Type of chemistry to produce D log E curves that approach those obtained with the reference film samples. The gamma will be equivalent to the reference. Photographic speed will be within 1 stop. Uniformity of development will show a density variation of no more than ± 0.05 density units at an average density of 1.00 on a 9 1/2" X 9 1/2" film sample.

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